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PTO/SB/64 (12-07)

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**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT
ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

Docket Number (Optional)

20363-015NATL

First named inventor: Nadler, et al.

Application No.: 09/830,400

Art Unit: 1644

Filed: July 20, 2001

Examiner: Amy E. Juedes

Title: CANCER IMMUNOTHERAPY AND DIAGNOSIS USING UNIVERSAL TUMOR ASSOCIATED ANTIGENS, SUCH AS THE
TELOMERASE CATALYTIC SUBUNIT (HTRT), AND METHODS FOR IDENTIFYING UNIVERSAL TUMOR ASSOCIATED ATIGENS

Attention: Office of Petitions

Mail Stop Petition

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

FAX (571) 273-8300

NOTE: If information or assistance is needed in completing this form, please contact Petitions
Information at (571) 272-3282.The above-identified application became abandoned for failure to file a timely and proper reply to a notice or
action by the United States Patent and Trademark Office. The date of abandonment is the day after the expiration
date of the period set for reply in the office notice or action plus an extensions of time actually obtained.**APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION**

NOTE: A grantable petition requires the following items:

- (1) Petition fee;
- (2) Reply and/or issue fee;
- (3) Terminal disclaimer with disclaimer fee - required for all utility and plant applications
filed before June 8, 1995; and for all design applications; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee☒ Small entity-fee \$ 770.00 (37 CFR 1.17(m)). Applicant claims small entity status. See 37 CFR 1.27.☐ Other than small entity - fee \$ _____ (37 CFR 1.17(m))**2. Reply and/or fee**A. The reply and/or fee to the above-noted Office action in
the form of Amendment and Response to June 22, 2007 Final Office Action (identify type of reply):

- ☐ has been filed previously on _____
- ☒ is enclosed herewith.

B. The issue fee and publication fee (if applicable) of \$ _____

- ☐ has been paid previously on _____
- ☐ is enclosed herewith.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Mail Stop Petition, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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3. Terminal disclaimer with disclaimer fee

☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional. [NOTE: The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137(b) was unintentional (MPEP 711.03(c), subsections (III)(C) and (D)).]

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Signature

January 2, 2007

Date

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42,764

Typed or printed name

Registration Number, if applicable

Mints, Levin, Cohn, Ferris, Glosky and Popeo, P.C.

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Enclosures: ☒ Fee Payment

☒ Reply

☐ Terminal Disclaimer Form

☐ Additional sheets containing statements establishing unintentional delay

☒ Other: **Notice of Appeal; Check for Appeal Fee; Petition for Extension**

of Time; Check for Extension fee; Copy of Stryhn et al., 2000 European

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)] *Journal of Immunology*

30(11);3089-3099

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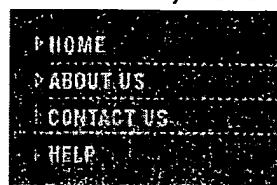
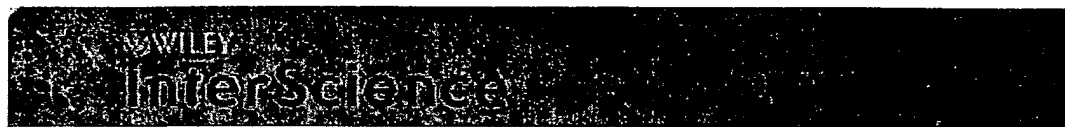
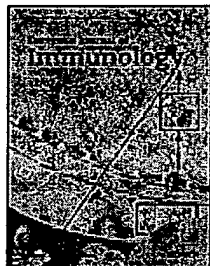
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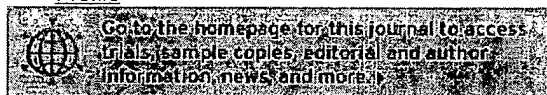
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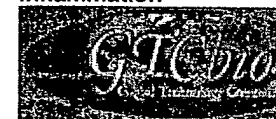
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Anette Stryhn*, Lars Østergaard Pedersen, Arne Holm, Søren Buus

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Keywords

Peptide; Antigen presentation; MHC class I; T cell recognition

Abstract

According to current consensus, CD8⁺ T cell responses are focused upon short peptide sequences (8-11 amino acids) presented by MHC class I molecules. This size restriction is thought to operate mostly at the level of peptide-MHC class I interaction. Crystal structures have shown that the free N and C termini of a bound peptide interact through hydrogen bonding networks to conserved residues at either end of the class I binding site. Accordingly, it is thought that the termini are fixed and that only minor variations in peptide size are possible through a central bulging mechanism. We find that this consensus view is not always correct as some peptide-MHC class I interaction will accept significant extensions. Furthermore, our results indicate that in some cases protrusion, rather than bulging, may be the mechanism of extension. Depending upon the particular peptide-MHC combination in question, such extensions can occur at either the N or C terminus (but never both at the same time). Finally, we show that MHC and T cell in some cases can detect the identity of the extension, i.e. that extensions may be part of the specificity of the T cell immune response. We suggest that such extensions may play a physiological role.

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